Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Date: 10-05-19

Lab ID	:	**CP-2020-01-31-86**
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T-Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Culvert & U Shape Drain for Secondary SWD S Ramesh Road Urdu School in Dasarahalli ward No.15
Agency	:	Smt K.Jayamma, #H No:74, Behind Grama Panchayat Office, Sganbhog Layout, Dasanapura, Bangalore-562133.
Customer's Reference	:	EE/SWD/DHZ/WO/06/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-05-19
Sample Type /Size	:	Precast Cover Slab (300mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	06/05/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	225.51	300.48	3.516	39934	240.9	6.0	5.6	7.0
2	Cover Slab-2	225.49	300.52	3.522	39927	240.3	6.0	5.6	7.0
3	Cover Slab-3	225.50	300.51	3.518	39930	240.5	6.0	5.6	7.0

Note:

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TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Lab ID	:	**CP-2020-01-31-86** **Date: 06-05-19**
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T-Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Culvert & U Shape Drain for Secondary SWD S Ramesh Road Urdu School in Dasarahalli ward No.15
Agency	:	Smt K.Jayamma, #H No:74, Behind Grama Panchayat Office, Sganbhog Layout, Dasanapura, Bangalore-562133.
Customer's Reference	:	EE/SWD/DHZ/WO/06/2017-18
Source of sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-04-19
Identification Mark on Brick	:	Wire Cut Brick
Reference to BIS codes	:	IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks-Specification IS 3495 (Part 1 to 3) : 1992(RA 2011) Method of Tests Burnt Clay Building Bricks Part 1:Determination of Compressive Strength, (Cl 4.2.3) Part 2:Determination of Water Absorption,(Cl 4.1.3) Part 3: Determination of Efflorescence, (Cl 4)
Date of test	:	30-04-19

COMPRESSIVE STRENGTH

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Failure Load (KN)	Compressive strength of individual bricks (N/mm^2)	Acceptablity as per IS 1077:1992, Clause 7.1
1	228.13	109.98	25090	206.7	8.2	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	228.98	108.62	24872	197.6	7.9	
3	231.01	107.99	24947	201.3	8.1	
4	230.11	107.54	24746	199.5	8.1	
5	228.16	106.98	24409	194.6	8.0	
Average of 5 bricks					8.1	

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Lab ID : **CP-2020-01-31-86** **Date: 06-05-19**

Sample ID No : **#REF!**

WATER ABSORPTION:

Sl.No.	Dry Weight	Wet Weight	Water Absorption(%)	Acceptablity as per IS 1077:1992, Clause 7.2
1	2.975	3.265	9.7	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	2.868	3.176	10.7	
3	2.906	3.196	10.0	
4	2.976	3.275	10.0	
5	2.875	3.218	11.9	
Average Water Absorption(%)			10.5	

EFFLORESCENCE:

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Efflorescence	Acceptablity as per IS 1077:1992, Clause 7.3
1	229.18	108.98	24976	Slight	The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higer classes.
2	228.98	109.18	25000	Moderate	
3	228.18	108.39	24732	Slight	
4	230.19	107.98	24856	Moderate	
5	228.13	109.19	24910	Slight	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4610	4520 to 4680 mm
2	Width	2185	2160 to 2240 mm
3	Height	1390	1360 to 1440 mm

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ಗಾಯತ್ರಿಪುರ ವಲಯ, ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/05/2019

Lab ID	:	**CP-2020-01-31-86**
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T-Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Culvert & U Shape Drain for Secondary SWD S Ramesh Road Urdu School in Dasarahalli ward No.15
Agency	:	Smt K.Jayamma, #H No:74, Behind Grama Panchayat Office, Sganbhog Layout, Dasanapura, Bangalore-562133.
Customer's Reference	:	EE/SWD/DHZ/WO/06/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-05-19
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	06/05/2019	13/05/2019	150.82 X 149.11 X 151.15	22488	8.880	413.4	18.4	18.6
2	PCC	M20	06/05/2019	13/05/2019	149.42 X 149.14 X 150.51	22284	8.205	415.8	18.7	
3	PCC	M20	06/05/2019	13/05/2019	151.19 X 149.59 X 150.53	22617	8.417	423.9	18.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-31-86** **Date: 03/06/2019**

Customer : Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.

Address : T-Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC Culvert & U Shape Drain for Secondary SWD S Ramesh Road Urdu School in Dasarahalli ward No.15

Agency : Smt K.Jayamma, #H No:74, Behind Grama Panchayat Office, Sganbhog Layout, Dasanapura, Bangalore-562133.

Customer's Reference : EE/SWD/DHZ/WO/06/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-05-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	06/05/2019	03/06/2019	150.47 X 149.29 X 150.46	22465	8.958	536.7	23.9	23.6
2	PCC	M20	06/05/2019	03/06/2019	149.67 X 150.67 X 151.87	22552	8.006	517.6	22.9	
3	PCC	M20	06/05/2019	03/06/2019	151.93 X 151.57 X 150.16	23028	8.195	551.0	23.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/05/2019

Lab ID	:	**CP-2020-01-31-86**
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T-Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Culvert & U Shape Drain for Secondary SWD S Ramesh Road Urdu School in Dasarahalli ward No.15
Agency	:	Smt K.Jayamma, #H No:74, Behind Grama Panchayat Office, Sganbhog Layout, Dasanapura, Bangalore-562133.
Customer's Reference	:	EE/SWD/DHZ/WO/06/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-05-19
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	06/05/2019	13/05/2019	151.41 X 149.24 X 149.83	22596	8.880	422.4	18.7	18.5
2	PCC	M20	06/05/2019	13/05/2019	150.16 X 149.03 X 149.94	22377	8.205	408.5	18.3	
3	PCC	M20	06/05/2019	13/05/2019	151.65 X 149.81 X 149.80	22718	8.417	418.7	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-01-31-86** **Date: 03/06/2019**
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T-Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Culvert & U Shape Drain for Secondary SWD S Ramesh Road Urdu School in Dasarahalli ward No.15
Agency	:	Smt K.Jayamma, #H No:74, Behind Grama Panchayat Office, Sganbhog Layout, Dasanapura, Bangalore-562133.
Customer's Reference	:	EE/SWD/DHZ/WO/06/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-05-19
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	06/05/2019	03/06/2019	151.11 X 150.84 X 149.48	22794	8.958	542.1	23.8	23.3
2	PCC	M20	06/05/2019	03/06/2019	149.17 X 150.63 X 150.20	22469	8.006	495.9	22.1	
3	PCC	M20	06/05/2019	03/06/2019	149.69 X 150.04 X 149.76	22459	8.195	537.0	23.9	

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ಗಾಯರಪಳ್ಳಿ ವಲಯ, ಬಿ.ಬಿ.ಎಮ್.ಪಿ. ಬೆಂಗಳೂರು

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-01-31-86** **Date: 27/05/2019**
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T-Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Culvert & U Shape Drain for Secondary SWD S Ramesh Road Urdu School in Dasarahalli ward No.15
Agency	:	Smt K.Jayamma, #H No:74, Behind Grama Panchayat Office. Sganbhog Layout, Dasanapura, Bangalore-562133.
Customer's Reference	:	EE/SWD/DHZ/WO/06/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-05-19
Customer ID	:	Drain Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M25	20/05/2019	27/05/2019	149.64 X 151.60 X 150.73	22686	8.361	523.2	23.1	22.7
2	Drain Bottom Raft	M25	20/05/2019	27/05/2019	151.53 X 150.47 X 149.48	22800	8.406	518.6	22.7	
3	Drain Bottom Raft	M25	20/05/2019	27/05/2019	150.77 X 151.41 X 151.08	22827	8.415	508.4	22.3	

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Assistant Executive Engineer
Storm Water Drain-Dasarahallu Zone

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-01-31-86** **Date: 17/06/2019**
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T-Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Culvert & U Shape Drain for Secondary SWD S Ramesh Road Urdu School in Dasarahalli ward No.15
Agency	:	Smt K.Jayamma, #H No:74, Behind Grama Panchayat Office, Sganbhog Layout, Dasanapura, Bangalore-562133.
Customer's Reference	:	EE/SWD/DH/WO/06/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-05-19
Customer ID	:	Drain Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M25	20/05/2019	17/06/2019	151.66 X 150.64 X 149.18	22847	8.744	632.9	27.7	27.4
2	Drain Bottom Raft Concrete	M25	20/05/2019	17/06/2019	149.26 X 150.44 X 149.94	22455	8.162	593.1	26.4	
3	Drain Bottom Raft Concrete	M25	20/05/2019	17/06/2019	149.51 X 151.79 X 150.27	22694	8.292	637.2	28.1	

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Storm Water Drain-Dasarahallu Zone
BBMP

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/05/2019

Lab ID	:	CP-2020-01-31-86
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T-Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Culvert & U Shape Drain for Secondary SWD S Ramesh Road Urdu School in Dasarahalli ward No.15
Agency	:	Smt K.Jayamma, #H No:74, Behind Grama Panchayat Office, Sganbhog Layout, Dasanapura, Bangalore-562133.
Customer's Reference	:	EE/SWD/DHZ/WO/06/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-05-19
Customer ID	:	Drain Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M25	20/05/2019	27/05/2019	149.09 X 149.29 X 150.57	22258	8.415	517.8	23.3	22.8
2	Drain Bottom Raft	M25	20/05/2019	27/05/2019	149.92 X 149.55 X 151.54	22420	8.483	500.8	22.3	
3	Drain Bottom Raft	M25	20/05/2019	27/05/2019	151.24 X 151.91 X 149.43	22975	8.854	526.7	22.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/06/2019

Lab ID	:	CP-2020-01-31-86
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T-Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Culvert & U Shape Drain for Secondary SWD S Ramesh Road Urdu School in Dasarahalli ward No.15
Agency	:	Smt K.Jayamma, #H No:74, Behind Grama Panchayat Office, Sganbhog Layout, Dasanapura, Bangalore-562133.
Customer's Reference	:	EE/SWD/DHZ/WO/06/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-05-19
Customer ID	:	Drain Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M25	20/05/2019	17/06/2019	151.17 X 149.79 X 149.86	22643	8.861	633.3	28.0	27.6
2	Drain Bottom Raft Concrete	M25	20/05/2019	17/06/2019	151.47 X 150.51 X 151.29	22797	8.432	596.7	26.2	
3	Drain Bottom Raft Concrete	M25	20/05/2019	17/06/2019	149.18 X 151.79 X 150.83	22644	9.083	649.3	28.7	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

Assistant Executive Engineer
Storm Water Drain-Dasarahallu Zone
BBMP

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-01-31-86** **Date: 27/05/2019**
Customer	:	Assistant Executive Engineer, T-Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T-Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC Culvert & U Shape Drain for Secondary SWD S Ramesh Road Urdu School in Dasarahalli ward No.15
Agency	:	Smt K Jayamma, #H No:74, Behind Grama Panchayat Office, Sganbhog Layout, Dasanapura, Bangalore-562133.
Customer's Reference	:	EE/SWD-DHZ/WO:06/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-05-19
Customer ID	:	Drain Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/05/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M25	20/05/2019	27/05/2019	150.49 X 150.70 X 150.96	22678	8.426	538.3	23.7	23.1
2	Drain Bottom Raft	M25	20/05/2019	27/05/2019	151.95 X 151.09 X 151.92	22957	8.366	523.4	22.8	
3	Drain Bottom Raft	M25	20/05/2019	27/05/2019	151.81 X 149.26 X 150.32	22658	8.389	512.8	22.6	

Note:
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Assistant Executive Engineer
Storm Water Drain-Dasarahallu Zone
BBMP

CIVIL PRO Sig. Date. BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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